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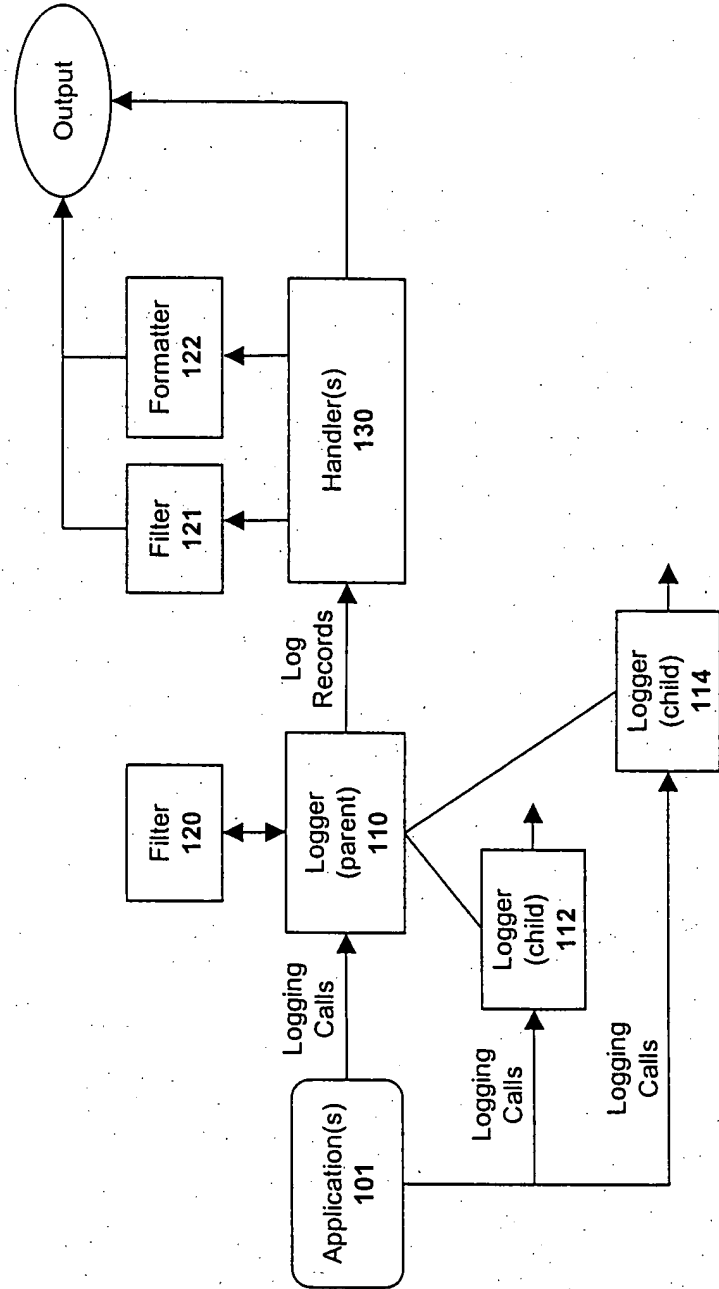


Fig. 1
(Prior Art)

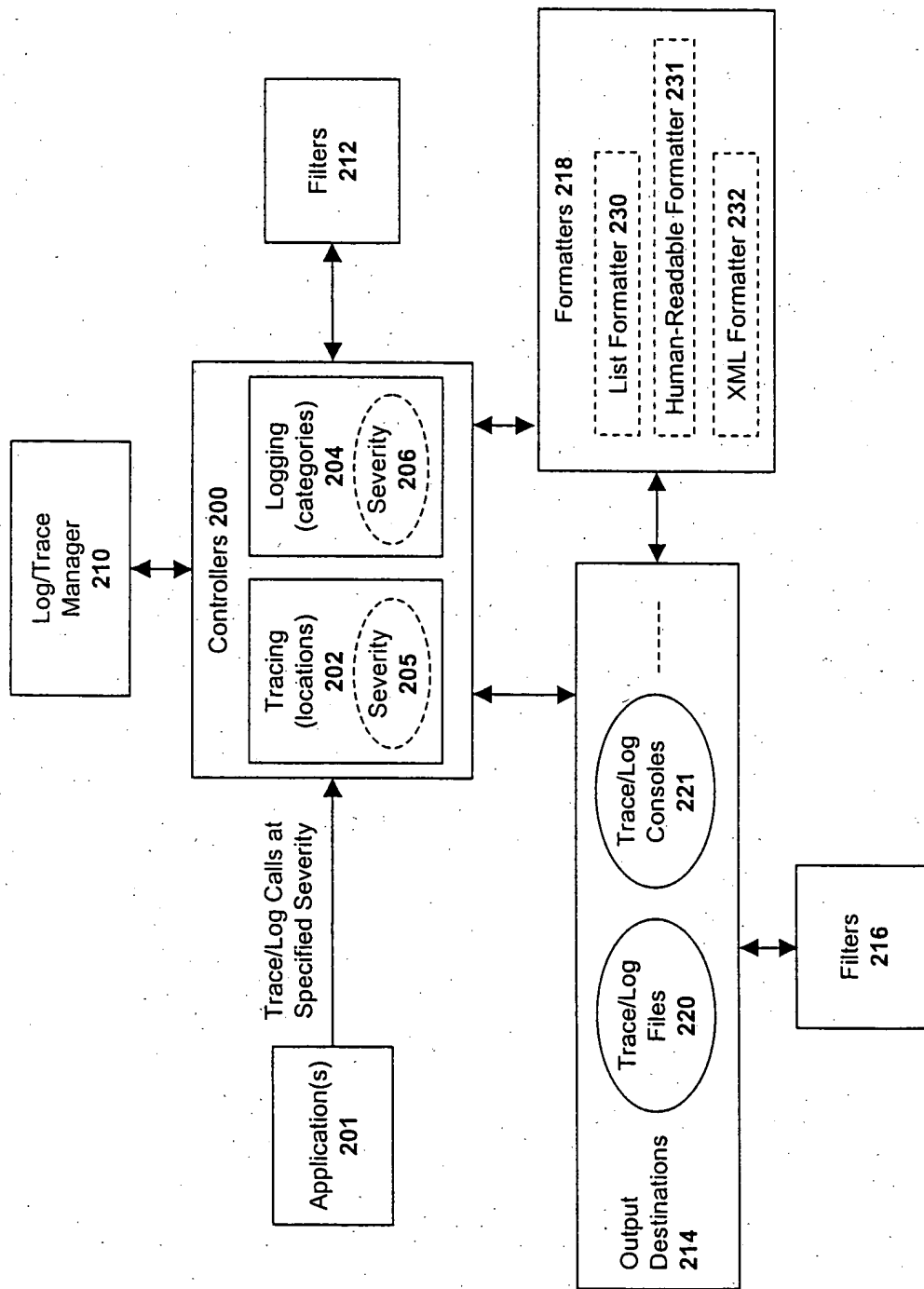


Fig. 2

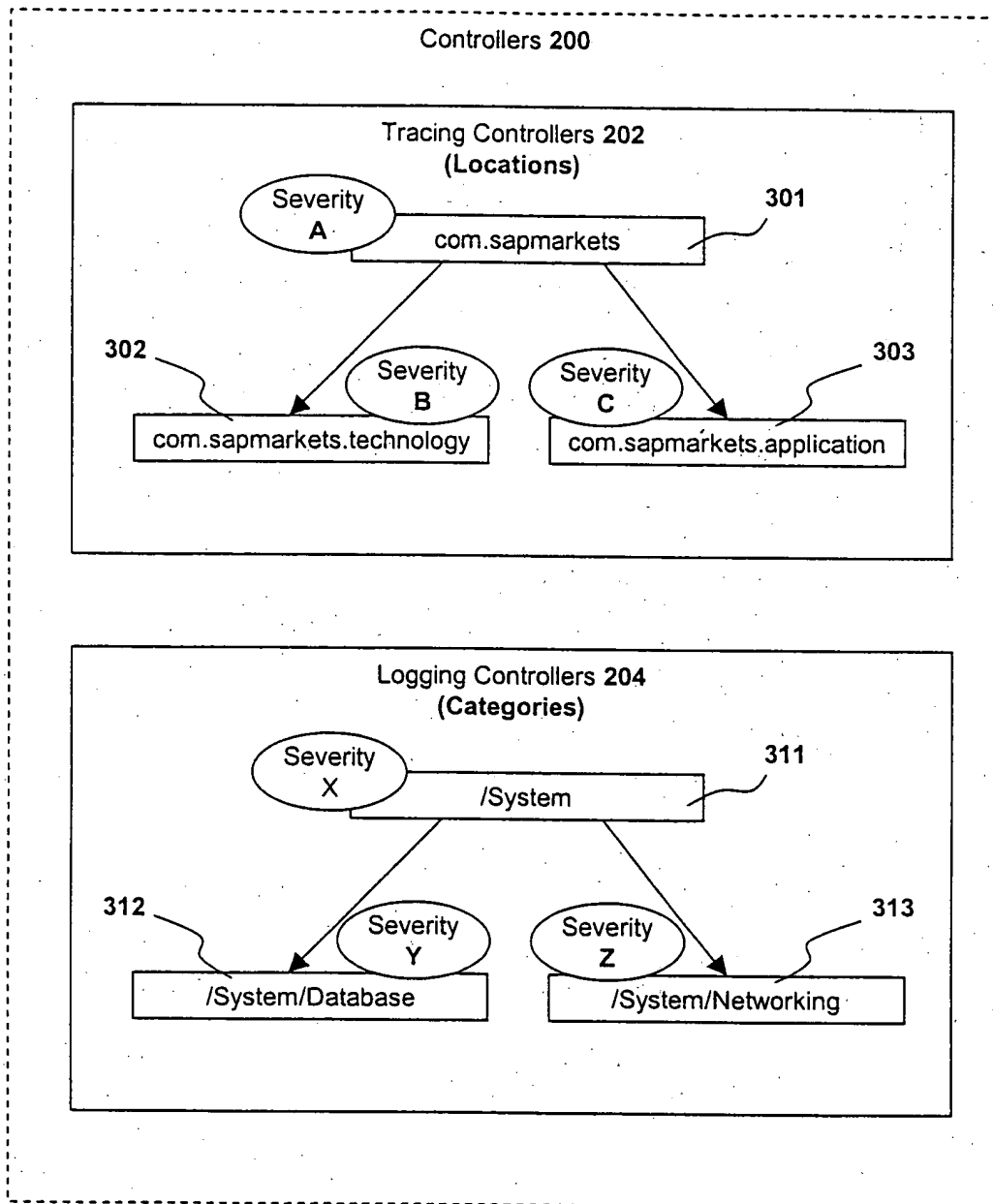


Fig. 3

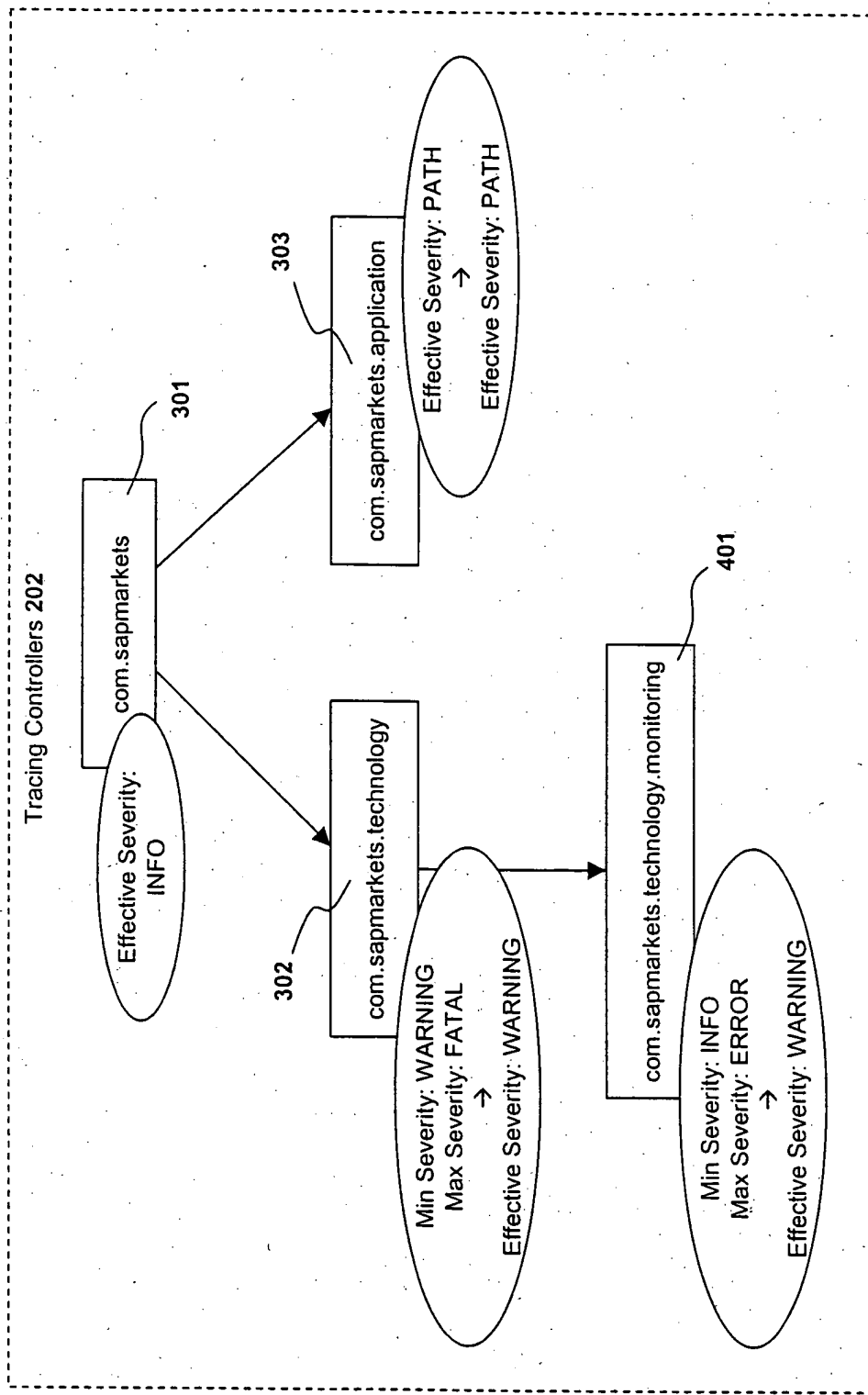


Fig. 4

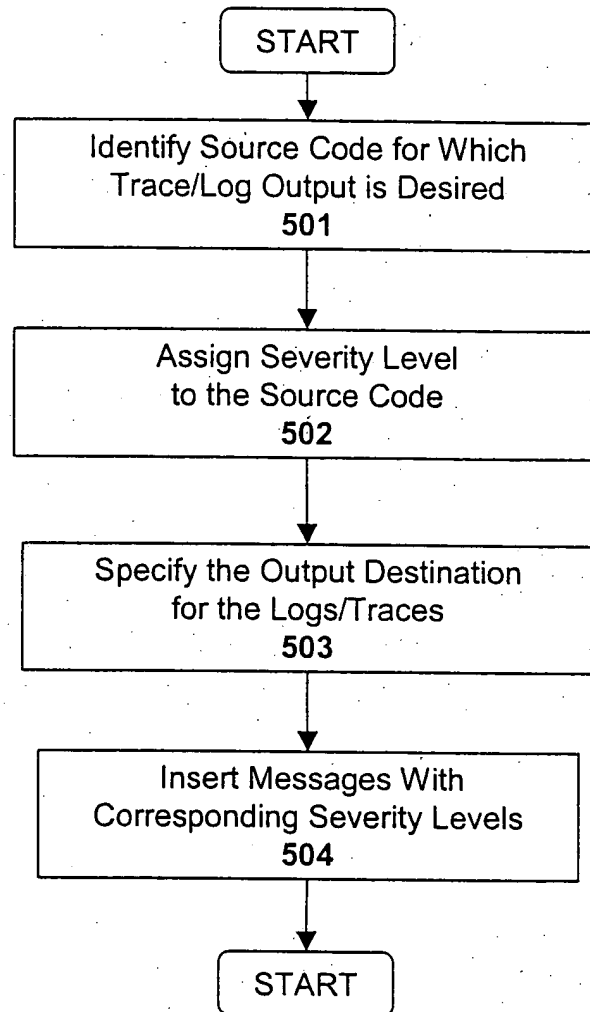


Fig. 5

MIN	0	Minimum restriction
DEBUG	100	For debugging purpose, with extensive and low level information
PATH	200	For tracing the execution flow, e.g., used in the context of entering and leaving a method, looping and branching operations
INFO	300	Informational text, mostly for echoing what has been performed
WARNING	400	Application can recover from anomaly, and fulfill the desired task, but need attention from developer/operator
ERROR	500	Application can recover from error, but cannot fulfill desired task due to the error
FATAL	600	Application cannot recover from error, and the severe situation causes fatal termination
MAX	700	Maximum restriction

Fig. 6a

ALL	0	Output messages of all severity
NONE	701	No messages will be logged

Fig. 6b

710 → #####Location "com.sapmarkets.usermanagement"
Assign severity threshold to WARNING level
com.sapmarkets.usermanagement.severity ← 712 ← 714 ← 716 = WARNING
720 → ##### Now, specify Console as the destination to 'usermanagement'
com.sapmarkets.usermanagement.logs ← 712 ← 722 ← 724 = ConsoleLog
700

FIG. 7a

Jan 3, 2002 6:54:18 PM com.sapmarkets.usermanagement.ClassA.method1[main] Warning: xxxxxxxx
Jan 3, 2002 6:54:18 PM com.sapmarkets.usermanagement.ClassB.method2 [main] Fatal: Unable to

FIG. 7b


```

805 → com.sapmarkets.usermanagement.severity = WARNING ← 810
##### Now, push messages simultaneously to 2 destinations:
##### a console and an output file
##### represented by a variable notation ← 825 → 830
com.sapmarkets.usermanagement.logs = log[Console], log[File1]

##### Set up a FileLog, for storing trace, with <id>: 'File1'
##### 'C:\\temp\\myTrace.txt' or 'C:/temp/myTrace.txt'
##### Dumping messages with the default format of TraceFormatter
log[File1] = FileLog
log[File1].pattern = C:\\temp\\myTrace.txt
log[File1].formatter = TraceFormatter

835 → ##### Set up a ConsoleLog, with <id>: 'Console'
##### Dumping message with self-defined format of TraceFormatter
log[Console] = ConsoleLog ← 845
log[Console].formatter = formatter[TraceNoDate] ← 840

##### Set up a TraceFormatter, with <id>: 'TraceNoDate'
##### and its pattern starts with the Severity level, and consists no date/timestamp
formatter[TraceNoDate] = TraceFormatter ← 860
formatter[TraceNoDate].pattern = %s: %-30l [%t]: %m ← 855
861 862 863 864 ← 800

```

FIG. 8

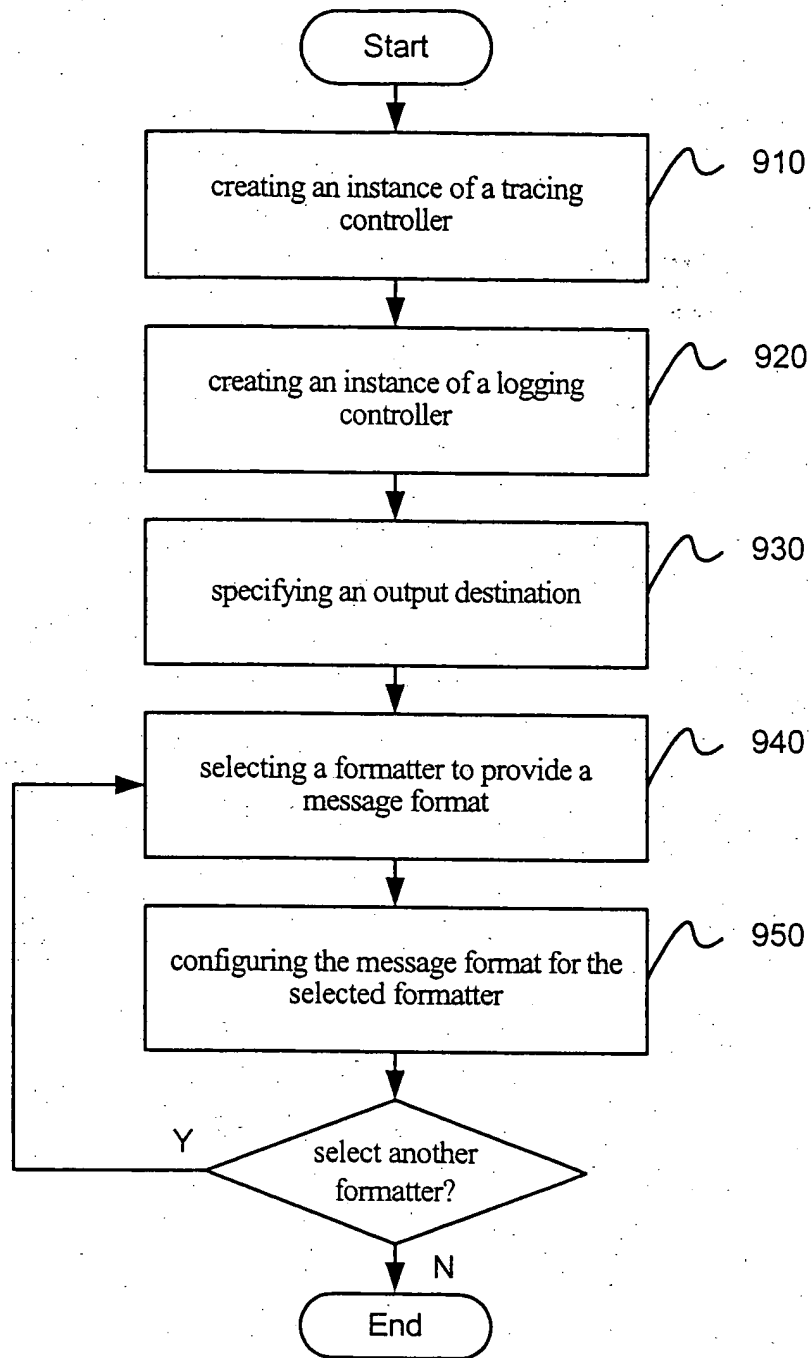


FIG. 9

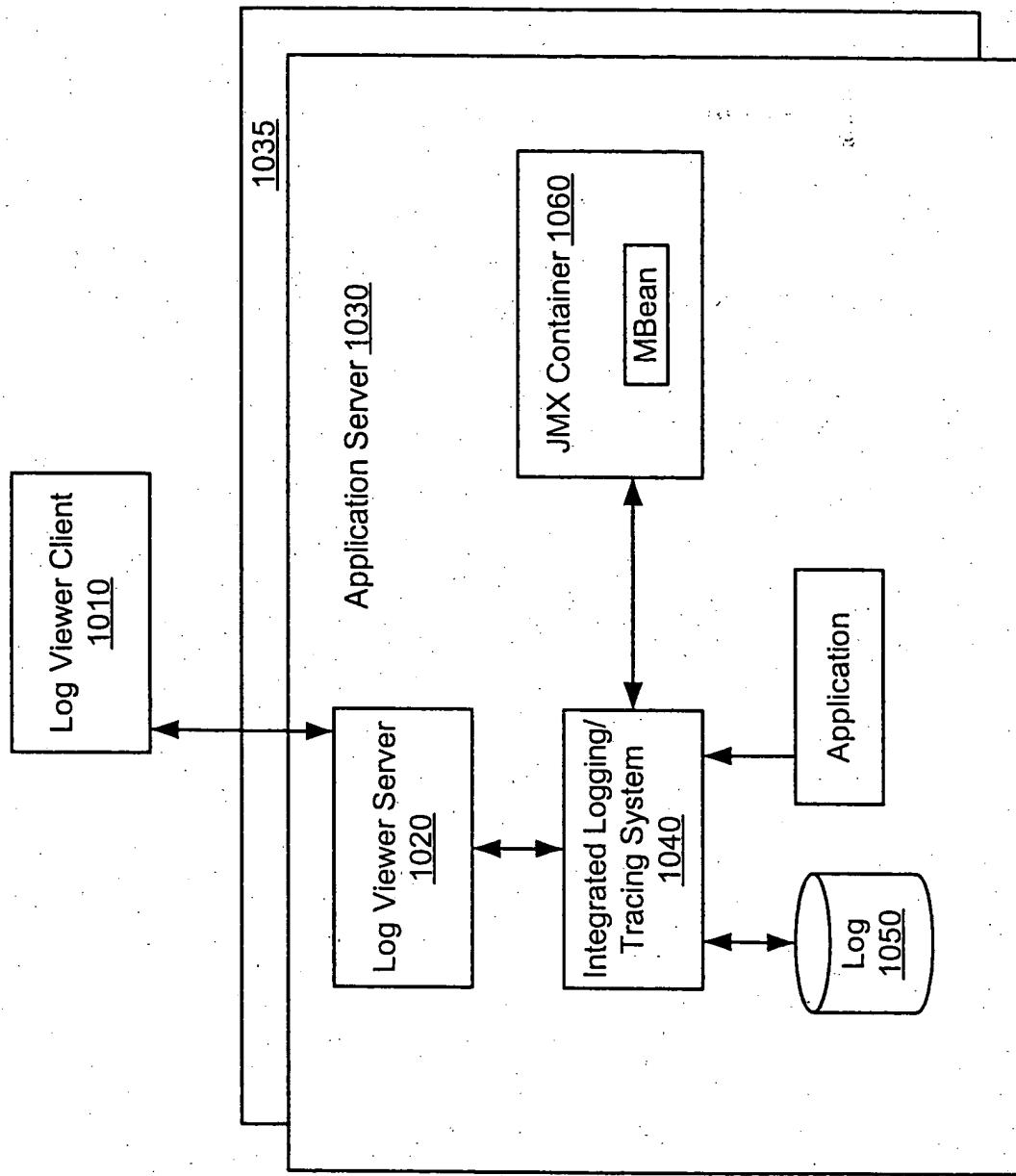


FIG. 10

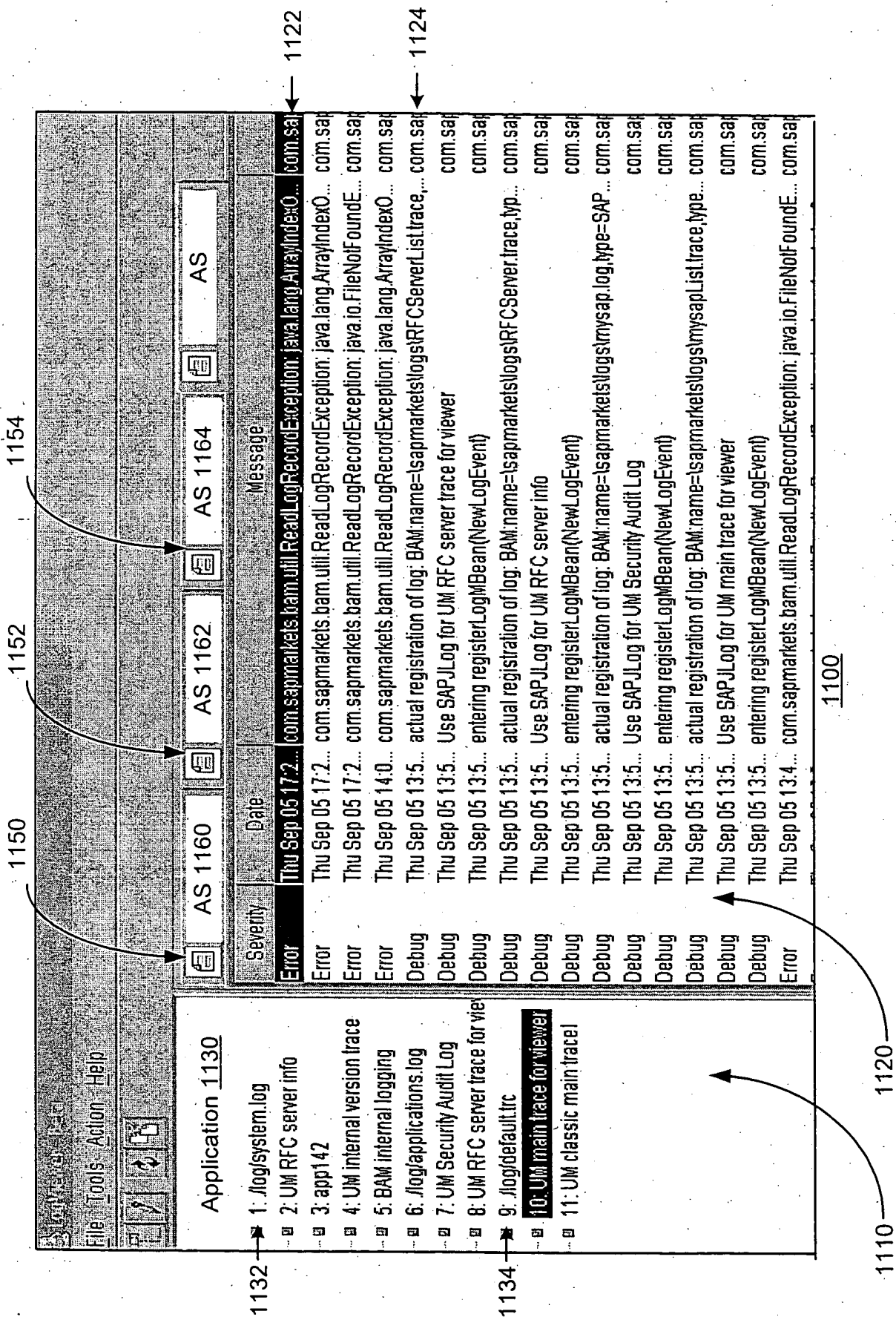


FIG. 11

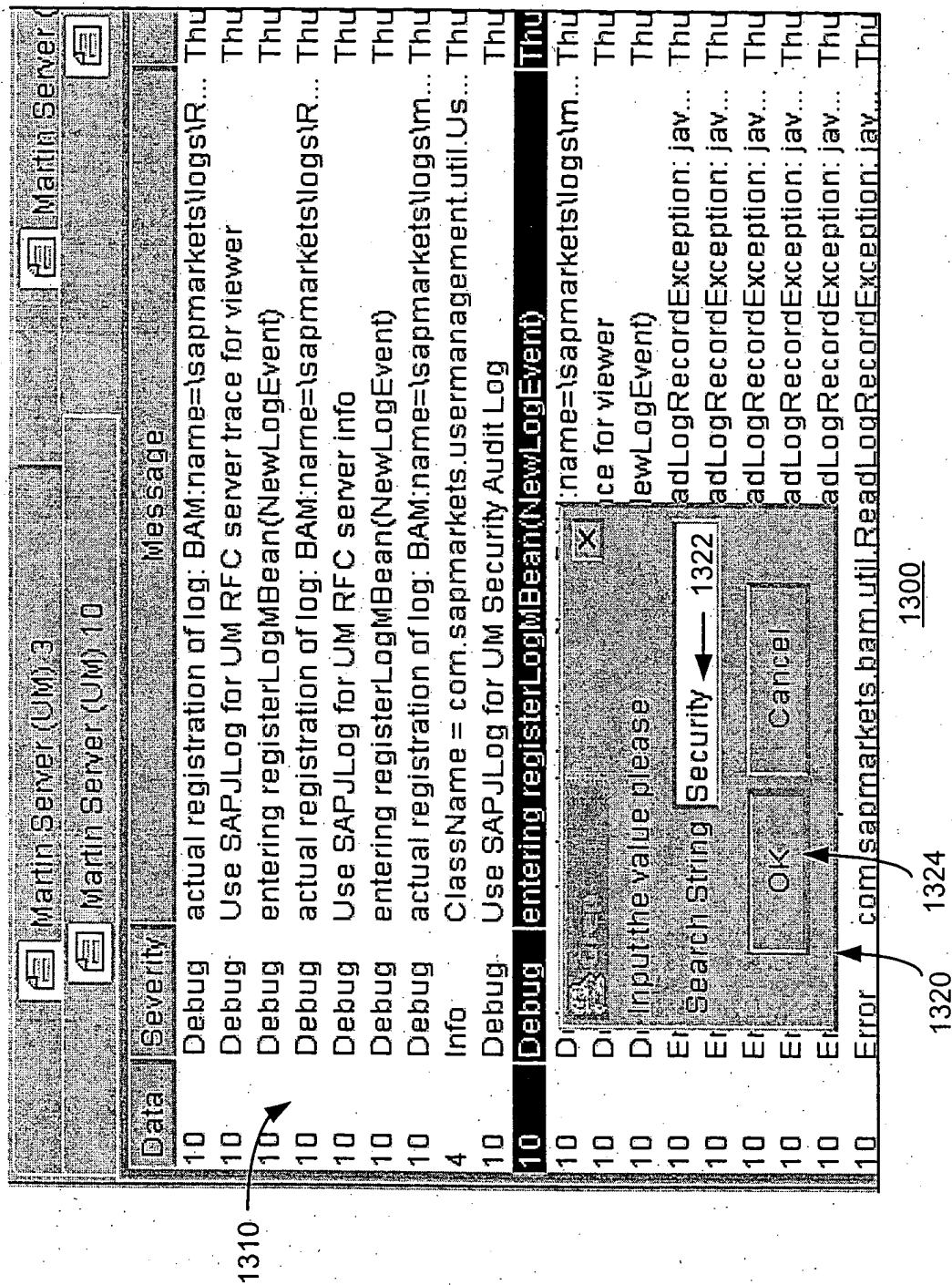


FIG. 13a

1430

ation

artin Server (UM) (martin.pat.sar

1. /log/system.log

2. UM RFC server info

3. appl142

4. UM internal version trace

5. BAM internal logging

6. /log/applications.log

7. UM Security Audit Log

8. UM RFC server trace for vie

9. /log/default.ttc

10. UM main trace for viewer

11. UM classic main trace1

1410

AS 1430 AS 1431 AS 1432
AS 1433 AS 1431 + 1433

Data	Severity	Message	Date	Location
10	Debug	actual registration of log: BAMname=lsapmarketslogsr...	Thu Sep 05 13:53:48 PDT...	com.sapmarkets.bam.jmxadapter.sa.
10	Debug	Use SAPJLog for UM RFC server trace for viewer	Thu Sep 05 13:53:48 PDT...	com.sapmarkets.bam.jmxadapter.sa.
10	Debug	entering registerLogMBean(NewLogEvent)	Thu Sep 05 13:53:48 PDT...	com.sapmarkets.bam.jmxadapter.sa.
10	Debug	actual registration of log: BAMname=lsapmarketslogsr...	Thu Sep 05 13:53:48 PDT...	com.sapmarkets.bam.jmxadapter.sa.
10	Debug	Use SAPJLog for UM RFC server info	Thu Sep 05 13:53:48 PDT...	com.sapmarkets.bam.jmxadapter.sa.
10	Debug	entering registerLogMBean(NewLogEvent)	Thu Sep 05 13:53:48 PDT...	com.sapmarkets.bam.jmxadapter.sa.
10	Debug	actual registration of log: BAMname=lsapmarketslogsm...	Thu Sep 05 13:53:48 PDT...	com.sapmarkets.bam.jmxadapter.sa.
4	Info	ClassName = com.sapmarkets.usermanagement.util.Us...	Thu Sep 05 13:53:48 PDT...	com.mysap.mp.security.utils.Trace
10	Debug	Use SAPJLog for UM Security Audit Log	Thu Sep 05 13:53:48 PDT...	com.sapmarkets.bam.jmxadapter.sa.
10	Debug	entering registerLogMBean(NewLogEvent)	Thu Sep 05 13:53:48 PDT...	com.sapmarkets.bam.jmxadapter.sa.
10	Debug	actual registration of log: BAMname=lsapmarketslogsm...	Thu Sep 05 13:53:48 PDT...	com.sapmarkets.bam.jmxadapter.sa.
10	Debug	Use SAPJLog for UM main trace for viewer	Thu Sep 05 13:53:48 PDT...	com.sapmarkets.bam.jmxadapter.sa.
10	Debug	entering registerLogMBean(NewLogEvent)	Thu Sep 05 13:53:48 PDT...	com.sapmarkets.bam.jmxadapter.sa.
10	Error	com.sapmarkets.bam.util.ReadLogRecordException: jav...	Thu Sep 05 13:46:32 PDT...	com.sapmarkets.bam.logcontroller.i...
10	Error	com.sapmarkets.bam.util.ReadLogRecordException: jav...	Thu Sep 05 13:39:53 PDT...	com.sapmarkets.bam.logcontroller.i...
10	Error	com.sapmarkets.bam.util.ReadLogRecordException: jav...	Thu Sep 05 13:39:28 PDT...	com.sapmarkets.bam.logcontroller.i...
10	Error	com.sapmarkets.bam.util.ReadLogRecordException: jav...	Thu Sep 05 13:39:19 PDT...	com.sapmarkets.bam.logcontroller.i...
10	Error	com.sapmarkets.bam.util.ReadLogRecordException: jav...	Thu Sep 05 13:10:51 PDT...	com.sapmarkets.bam.logcontroller.i...
10	Error	com.sapmarkets.bam.util.ReadLogRecordException: jav...	Thu Sep 05 13:09:45 PDT...	com.sapmarkets.bam.logcontroller.i...
10	Error	com.sapmarkets.bam.util.ReadLogRecordException: jav...	Thu Sep 05 13:09:17 PDT...	com.sapmarkets.bam.logcontroller.i...

1420

1400

FIG. 14

- ation
- Admin Server (UM) (martin.pal.sap)
- 1. /log/system.log
- 2. UM RFC server info
- 3. app142
- 4. UM internal version trace
- 5. BAM internal logging
- 6. /log/applications.log
- 7. UM Security Audit Log
- 8. UM RFC server trace for viewer
- 9. /log/default.trc
- 10. UM main trace for viewer
- 11. UM classic main trace

1412

1414

1410

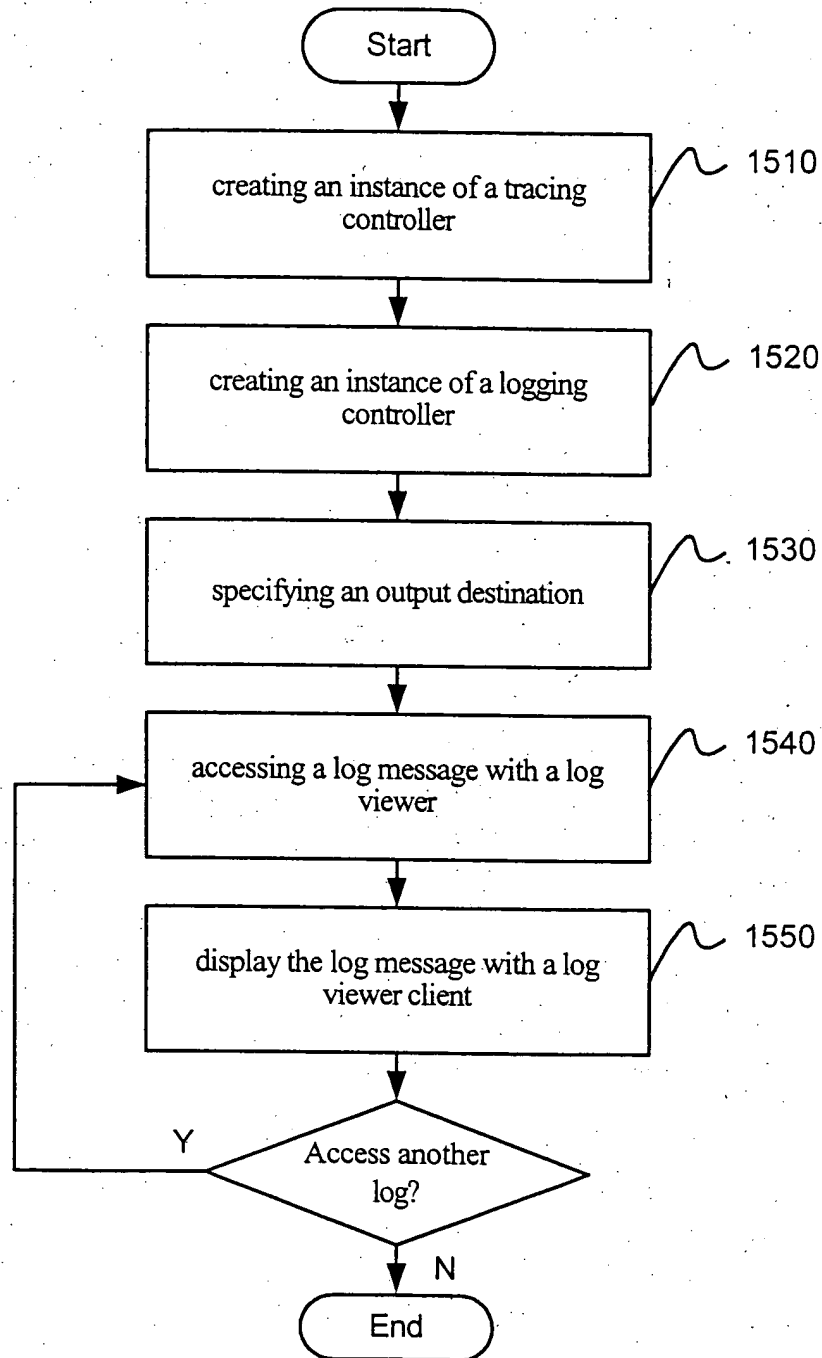


FIG. 15

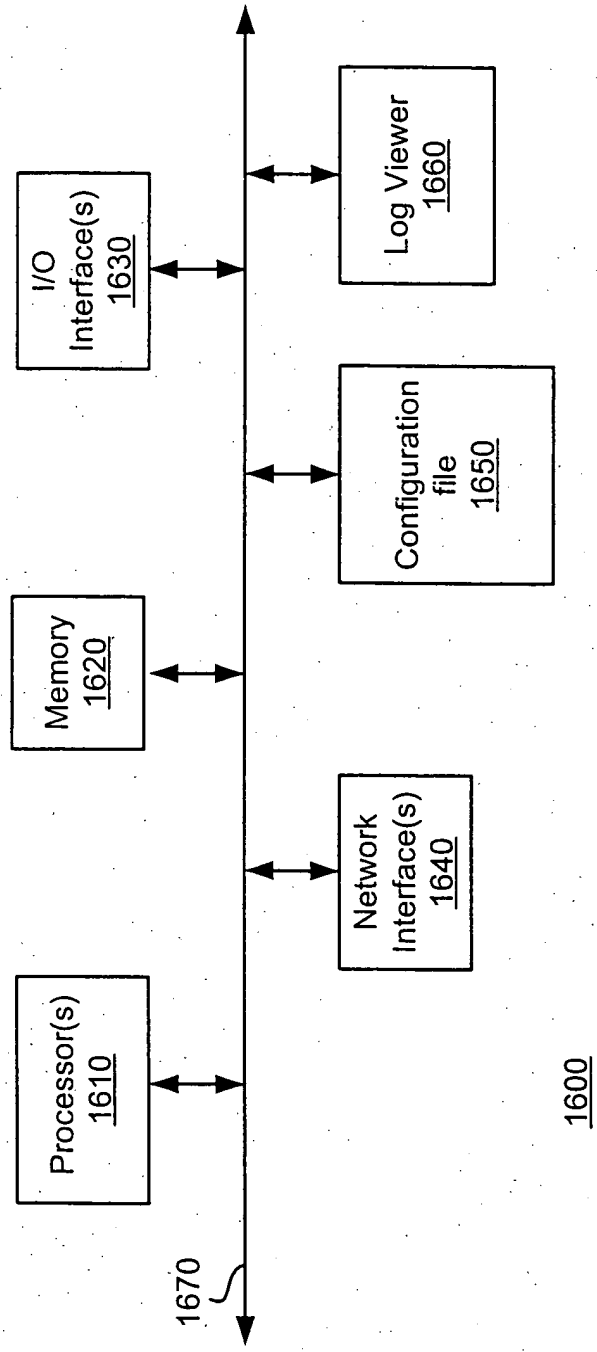


FIG. 16